

AMENDMENTS TO THE CLAIMS

Claim 1. (withdrawn) A laminate for producing a paper package comprising

a paper substrate; and a five layer coextrusion coated onto the substrate, the five layer coextrusion comprising: a first layer of low density polyethylene, a first adhesive tie layer, a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, a second adhesive tie layer, a second layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

Claim 2. (withdrawn) The laminate for producing a paper package in accordance with claim 1, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

Claim 3. (withdrawn) The laminate for producing a paper package in accordance with claim 1, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

Claim 4. (withdrawn) The laminate for producing a paper package in accordance with claim 1, wherein the ethylene vinyl alcohol copolymer has an ethylene content of 44%.

Claim 5. (withdrawn) The laminate for producing a paper package in accordance with claim 1, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

Claim 6. (withdrawn) The laminate for producing a paper package in accordance with claim 1, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

Claim 7. (withdrawn) The laminate for producing a paper package in accordance with claim 1, wherein the substrate is paperboard.

Claim 8. (withdrawn) The laminate for producing a paper package in accordance with claim 1, further comprising a layer of linear low density polyethylene

and a layer of low density polyethylene applied between the five layer coextrusion and the substrate.

Claim 9. (withdrawn) The laminate for producing a paper package in accordance with claim 2, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Claim 10. (withdrawn) A package produced from a laminate comprising: a paper substrate; and a five layer coextrusion coated onto the substrate, the five layer coextrusion comprising: a first layer of low density polyethylene, a first adhesive tie layer, a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, a second adhesive tie layer, a second layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

Claim 11. (withdrawn) The package produced from a laminate in accordance with claim 10, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

Claim 12. (withdrawn) The package produced from a laminate in accordance with claim 10, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

Claim 13. (withdrawn) The package produced from a laminate in accordance with claim 10, wherein the ethylene vinyl alcohol copolymer has an ethylene content of 44%.

Claim 14. (withdrawn) The package produced from a laminate in accordance with claim 10, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

Claim 15. (withdrawn) The package produced from a laminate in accordance with claim 10, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

Claim 16. (withdrawn) The package produced from a laminate in accordance with claim 10, wherein the substrate is paperboard.

Claim 17. (withdrawn) The package produced from a laminate in accordance with claim 10, further comprising a layer of linear low density polyethylene and a layer of low density polyethylene applied between the five layer coextrusion and the substrate.

Claim 18. (withdrawn) The package produced from a laminate in accordance with claim 11, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Claim 19. (currently amended) A laminate for producing a paper package comprising:

a paper substrate; and

interior to said substrate a three layer structure comprising

a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin in the absence of a compatibilizer,

a first adhesive tie layer, and

a layer of low density polyethylene;

wherein the blend barrier layer comprises 35% - 95% ethylene vinyl alcohol copolymer and exhibits an oxygen transmission rate of less than about 1 cc-mil/100 in² · day,

the tie layer being between the blend layer and the layer of low density polyethylene.

Claim 20. (Previously presented) The laminate as claimed in Claim 19, further comprising a second adhesive tie layer coated on the paper substrate between the three layer coating coextrusion.

Claim 21. (Previously presented) The laminate for producing a paper package in accordance with Claim 19, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

Claim 22. (Previously presented) The laminate for producing a paper package in accordance with Claim 19, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

Claim 23. (Previously presented) The laminate for producing a paper package in accordance with Claim 19, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

Claim 24. (Previously presented) The laminate for producing a paper package in accordance with Claim 20, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

Claim 25. (Previously presented) The laminate for producing a paper package in accordance with Claim 19, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Claim 26. (Currently amended) A package produced from a laminate comprising: A paper substrate; and a three layer coating coextrusion coated onto the substrate, the three layer coating coextrusion comprising a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin in the absence of a compatibilizer and exhibiting an oxygen transmission rate of less than 1cc.mil/100 in ² day an adhesive tie layer, and a layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer, the tie layer being between the blend barrier layer and the layer of low density polyethylene.

Claim 27. (Previously amended) The package produced from a laminate in accordance with claim 26, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

Claim 28. (Previously amended) The package produced from a laminate in accordance with claim 26, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

Claim 29. (Previously amended) The package produced from a laminate in accordance with claim 26, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

Claim 30. (Previously amended) The package produced from a laminate in accordance with claim 26, wherein the adhesive tie layer is a modified polyethylene or modified polypropylene.

Claim 31. (Previously amended) The package produced from a laminate in accordance with claim 26, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Claim 32. (Previously presented) The laminate as claimed in claim 19, wherein the blend barrier layer is made without compatibilizers.

Claim 33. (Previously presented) The package produced from a laminate in accordance with claim 26, wherein the blend barrier is made without compatibilizers.

Claim 34. (Previously presented) The laminate as claimed in claim 19, further comprising a second adhesive tie layer and a second LDPE layer, wherein the second tie layer is positioned between the blend barrier layer and the second LDPE layer.

Claim 35. (Previously presented) The laminate as claimed in claim 34, wherein the second tie layer has a first and second surface, said first surface is in contact with the blend barrier layer and the second surface is in contact with the second LDPE layer.